

Math 357  
Short quiz 07

2024-02-05 (M)

Your name: \_\_\_\_\_

Let  $R$  be a euclidean domain, and let  $N : R \rightarrow \mathbf{Z}_{\geq 0}$  be a norm that has a division algorithm. State the division algorithm. Within the division algorithm, what bonus do we get in the case  $R = F[t]$ , where  $F$  is a field and  $t$  is an indeterminate?